ABSTRACT OF THE DISCLOSURE.

A method and an apparatus for measuring and classifying skin anomalies by taking at least one digital image of the anomaly and a digital color reference image of healthy skin in the vicinity of the anomaly, computing surface measurement data including three-dimensional coordinates and color values scaled to the reference image of the anomaly and classifying the anomaly in predetermined categories on the basis of the surface measurement data.

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LEGEND TO SINGLE DRAWING:

| | ı | First Process Step | 18b | Selection |
|----|-----|--------------------------------|-----|---------------------------|
| | II | Second Process Step | 19 | External Data BAse |
| 5 | 111 | Third Process Step | 20 | Second Data Base |
| | 1 | Physician | 21 | Additional Data |
| | 2 | Measuring Head | 22 | Evaluated Images |
| | 3 | Digital Images | 23 | Select Comparative Data |
| | 4 | Pattern Projector | 23a | Evaluated Images |
| 10 | 5 | Digital Color Cameras | 24b | optional: Additional Data |
| | 6 | Ring of Reference Colors | | |
| | 7 | Skin Anomaly | | |
| | 8 | Patient Data Base | | |
| | 9 | Relevant Patient-Related Data | | |
| 15 | 10 | Video Monitor | | |
| | 10a | Expert Consultation | | |
| | 10b | Video Conferencing | | |
| | 11 | Local Computer | | |
| | 12 | Digital Images | | |
| 20 | 13 | Surface Measurement Data | | |
| | 14 | Neuronal Net | | |
| | 15 | First Classification Step | | |
| | 15a | Benign | | |
| | 15b | Suspicious | | |
| 25 | 15c | Malignant | | |
| | 16 | optional: Telematic | | |
| | 17 | Central Computer | | |
| | 18 | Neuronal Net | | |
| | 18a | Further Classification Process | | |